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FEE TRANSMITTAL for FY 2004

Effective 10/01/2003, Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 0.00

Complete if Known

Application Number	09/525,041-Conf. #8342
Filing Date	March 14, 2000
First Named Inventor	Daniel R. Soppet
Examiner Name	S. N. Ungar
Art Unit	1642
Attorney Docket No.	PF178D2

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

Deposit
Account
Number

08-3425

Deposit
Account
Name

Human Genome Sciences, Inc.

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) or any underpayment of fee(s)

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
1001	770	2001	385	Utility filing fee	
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1) (\$) 0.00

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

	Extra Claims	Fee from below	Fee Paid
Total Claims			
Independent Claims			
Multiple Dependent			

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$) 0.00

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37CFR 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 0.00

SUBMITTED BY

Name (Print/Type) Doyle A. Siever

Registration No.
(Attorney/Agent)

47,088

(Complete (if applicable))

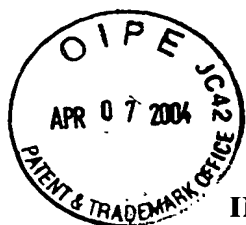
Telephone (240) 314-4400, x3595

Signature

Doyle A. Siever

Date

April 7, 2004



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Soppet et al

Application No.: 09/525,041

Group Art Unit: 1642

Filed: March 14, 2000

Examiner: S. Ungar

For: Colon Specific Gene and Protein

REPLY AND AMENDMENTS UNDER 37 C.F.R. § 1.111

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir or Madam:

In response to the Office Action mailed January 7, 2004, please enter the following amendments and consider the following remarks. Applicants submit herewith: (a) a Fee Transmittal Sheet with appropriate fee (in duplicate); (b) copy of partially redacted ATCC Deposit Receipt for Deposit Number 97129; (c) copy of publication Baier, *et al.*, *Jour. Virol.*, v.69, n.4, pp.2357-2365 (April 1995); (d) copy of publication Poon, *et al.*, *Jour. Biol. Chem.*, v.270, n.15, pp.8571-8577 (April 1995); (e) copy of publication Maloney, *et al.*, *Blood*, v.84, n.8, pp.2457-2466 (October 1994); (f) Sequence Alignment Colon Specific Protein vs. U.S. Patent No. 5,436,169 SEQ ID NO:7; (g) printout of excerpted definitions for orthologue and paralogue from the NCBI Field Glossary available on the internet at <http://www.ncbi.nlm.nih.gov/Class/FieldGuide/glossary.html#A>; and, (h) *Boehringer Mannheim Biochemicals, Inc. 1994 Catalog*, page 260.

Amendments to the Specification begin on page 2.

Amendments to the Claims begin on page 3.

Remarks begin on page 12.

Amendments to the Specification

At page 6, line 1, please replace the paragraph which was inserted by preliminary amendment before the first paragraph, with the following rewritten paragraph (see Preliminary Amendment, page 2, submitted March 14, 2000):

The ATCC number referred to above is directed to a biological deposit with the ATCC American Type Culture Collection (ATCC), 10801 University Boulevard, Manassas, Virginia 20110-2209. The strain referred to is being maintained under the terms of the Budapest Treaty and will be made available to a patent office signatory to the Budapest Treaty.